

**SPECIFICATION  
FOR  
TABLES, MOBILE, FOLDING**

(This specification is released for procurement purposes until revised or rescinded.)

**I. SCOPE**

This specification covers requirements for Mobile Folding Tables for cafeteria use in State agencies, institutions and public schools. These tables are to be hinged in the center of the top surface and at appropriate points on the leg apron support structure so that the unit can be collapsed (folded) into a smaller envelope for storage. When the table is in the folding mode it shall automatically expose castors to support the entire table so it can be easily moved to another location. Provisions must be made to prevent "Tip Over" on the longer tables when folded. When the table is opened and in use the static weight shall provide sufficient downward component force bearing on the floor to prevent the table from being easily moved. This specification is intended to cover the type tables generally required but is not intended to cover all varieties of designs available.

**II. CLASSIFICATION**

Mobile Folding Tables covered by this specification shall be classified as follows:

STYLE I - Table unit with high pressure laminate surfaced solid core top and attached benches.

STYLE II - Table unit with high pressure laminate surfaced solid core top and attached stools.

STYLE III - Table unit with high pressure laminate surfaced solid core top without attached benches or stools.

**III. APPLICABLE STANDARDS**

The following documents of issue in effect on the date of the Invitation for Bids shall form a part of this specification to the extent described in Requirements Section.

**NEMA Standard LD-3**

National Electrical Manufacturer's Association (NEMA)  
155 East 44th Street  
New York, NY 10017

**IV. REQUIREMENTS****A. GENERAL**

Products furnished per this document shall meet or exceed the following requirements:

All table units shall be new, unused, and a currently standard product of an established manufacturer except for such deviations as may be required by this document or the Invitation for Bids.

All table units shall meet the safety standards and be listed by Underwriters Laboratories. Your product UL listing number shall be provided with the bid response.

All table units shall present a neat, well-finished appearance inside and outside and shall be free from all imperfections and/or defects, which might affect appearance, normal life, or serviceability.

All metal parts shall be inherently corrosion resistant, or suitability treated to resist corrosion.

Plastic surfaces shall be free from ripples and thin spots, and have a bright colorfast appearance.

Construction shall indicate first quality workmanship throughout and all fastening done in a manner acceptable in good industry practice.

Tabletops and seats shall have rounded corners. All metal edges shall be deburred to prevent cuts or scratches in handling and in unfolding or folding tables.

**B. TABLE TOPS**

All style tops shall be surfaced with thermosetting high-pressure plastic laminate meeting the requirements of NEMA LD3, grade GP28 (0.028"). The underside of tops shall be surfaced with NEMA grade plastic backer sheet or other suitable backing sheet providing balanced construction.

Top construction shall have cores of minimum 5/8" 5 ply plywood, 3/4" 45 lb. density flakeboard or 3/4" 60 lb. density fiberboard. Edges shall be as described under "edging" below. The tabletop height shall be not less than 27 inches and not greater than 30 inches measured perpendicular to floor.

**C. EDGING**

Edging for the tables shall be 3mm thick (minimum) PVC vinyl, or similar material, molding permanently bonded to the sides to create an edge-sealed condition. Gapless construction is necessary to prevent liquids and food solids from attacking the core and collecting at the seams.

**D. APRON**

Tabletop shall be supported by a steel channel or apron, securely attached to the top with mechanical fasteners designed for use with the core materials of the tabletops specified. The framework shall be constructed of structural steel having sufficient cross sectional area to withstand the table load and a sectional modulus that will provide a solid rigid top support. Where applicable it shall be unitized by electric arc welding.

The support channel or apron shall be of minimum width necessary to accommodate the folding mechanism attachment points and maintain a rigidity and structural strength as required in this application.

#### **E. TABLE LEGS**

Legs shall be manufactured from tubular steel and shall be of adequate design and braced to ensure stability (non racking) under normal use as required in this application. Floor end of legs shall be covered with a non-marking shoe or glides. The shoe or glides shall not be easily removed without tools.

#### **F. FOLDING MECHANISM**

Table legs shall open and close in a single operation. The legs shall be positive locking in both open and closed position. Various locking methods such as gravity or spring lock may be used. In the closed position parts protruding beyond the apron shall be kept to a minimum. In the open position the mechanism shall be such that it cannot be released by pressing with a foot or knee by a person seated at the table. Provision must be made to make the table easy to fold by one or two persons. When necessary (on longer tables), a "load balancing" feature should be incorporated. During the folding operation there must be clearance between adjacent structural members. Steel on steel interference is not acceptable. Casters shall be located at the outer most corners of the unit when in a closed/folded mode. When the table is opened and in use the static weight shall provide sufficient downward component force bearing on the floor to prevent the table from being easily moved.

#### **G. CASTERS**

The table units shall be provided with 3-inch minimum diameter swivel type casters. The caster wheel peripheral surface shall be manufactured from hard rubber or suitable equivalent that will not mar or mark the floor.

#### **H. STYLE I BENCH SEATS (Permanently Attached)**

STYLE I table units shall be supplied with permanently attached bench seats that are an integral part of the folding mechanism. As the table is folded the benches must move in unison until reaching the fully folded/closed position. The benches shall be manufactured from the same material as specified for the table top (See Paragraph III.A., Paragraph III.B.). The bench seat height shall not be less than 15 inches and not greater than 18 inches measured perpendicular to the floor. Provision must be made to prevent sagging of the bench, such as, a steel longitudinal "stretcher" support member or equivalent. The benches shall be free from sharp, rough edges, or protruding parts that might snag clothing or cause injury.

#### **I. STYLE II STOOLS (Permanently Attached)**

STYLE II table units shall be supplied with permanently attached stool support structure that is an integral part of the folding mechanism. As the table is folded the stools must move in unison until reaching the fully folded/closed position. The stools shall be manufactured from high impact plastic and securely attached to the support structure. The stool height shall be not less than 15 inches and not greater than 18 inches measured perpendicular to the floor. The stools shall be free from sharp, rough edges, or protruding parts that might snag clothing or cause injury.

**J. STYLE III TABLE WITHOUT BENCHES OR STOOLS**

STYLE III table units shall be supplied without permanently attached benches or stool seating.

**K. FINISH (Metal Parts)**

All metal parts shall be inherently corrosion resistant, or suitably treated to resist corrosion. Product should be available either painted, chrome plated or a combination of both as required in the Invitation for Bids.

Painted: All painted surfaces shall be thoroughly cleaned and free of dirt, oil, grease, moisture, or other foreign matter prior to painting.

After cleaning, the frame shall be coated with a paint-bond coating and a rust inhibitor compatible with the top or finish coat. The finish coat shall consist of a high temperature enamel applied and baked in accordance with the paint manufacturer's recommendations (or the manufacturer's standard acrylic/epoxy based enamel coating or comparable quality). The enamel shall be the non-chipping type. There shall be no indication of rust or decay under the coating. An equivalent thermoset epoxy resin dry powder coating, electro statically applied, shall also be acceptable.

Chrome Plated: All electro-plated chrome finishes shall be subjected to the manufacturer's standard electrical and chemical cleaning process. Chrome shall be plated over a nickel base. The chrome shall be corrosion and chip resistant.

**L. SAMPLING AND INSPECTION**

Products furnished under this specification may be inspected by, or at the direction of the Inspection Section and/or the ordering state agency, institution, college or public school either at the destination or place of manufacture. Random samples of delivered items may be selected and checked for compliance with this specification. If it is found that the product does not meet the requirements of this specification, the Division of Purchase and Contract may proceed as stipulated in the terms and conditions of the bid.

**M. WARRANTY AND SERVICE**

All products shall carry the manufacturer's standard warranty and shall be guaranteed against defects in materials, workmanship and performance for a minimum of ONE YEAR. The warrantee shall begin on the date of acceptance of the product by the ordering facility. During this warrantee period, the vendor shall repair or replace defective material, components, or units at no cost to the State of North Carolina. Refer to the IFB for any additional requirements.

The vendor shall guarantee that the product will be standard and continuing item in the manufacturer's product line as specified in the IFB. The product shall be identifiable by regular catalogue numbers.

Factory authorized service shall be available within the State of North Carolina. An adequate supply of parts shall be made available to the state for the expected life of the products covered by this specification. Refer to the IFB for any additional requirements.

#### **N. PACKING/PACKAGING**

Packaging for shipment shall be in accordance with the manufacturer's standard practice and in a manner readily accepted by common carriers engaged in interstate commerce. Within the shipping carton, the units shall be packed in a manner designed to minimize damage during shipment due to rough or improper handling.

**Each shipping container shall be clearly marked with the following:**

- 1. Name of contents**
- 2. Quantity**
- 3. Name and address of the manufacturer**

**Shipping documents shall include the following:**

- 1. Order or contract number**
- 2. Name and address of the ordering agency or facility**

#### **O. ORDERING DATA**

(This information is for Purchase and Contract use only.)

Purchaser should specify the following in the Invitation for Bids:

1. Title, number, date of this specification
2. Classification (Style/Type/Class) of the unit desired
3. Table top size
4. Quantity of stools (where applicable)
5. Type of finish (Metal surfaces, paint or plated?)
6. UL product listing number shall be provided with bid response.
7. Warranty conditions
8. Service requirements